500,744

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



- 1 (1841) | CANTO CANTO IN A CANTO CA

(43) International Publication Date 7 August 2003 (07.08.2003)

PCT

(10) International Publication Number WO 03/064944 A1

(51) International Patent Classification7:

- (21) International Application Number: PCT/BR03/00010
- (22) International Filing Date: 28 January 2003 (28.01.2003)
- (25) Filing Language:

English

F25D 17/06

(26) Publication Language:

English

(30) Priority Data:

PI 0200230-2

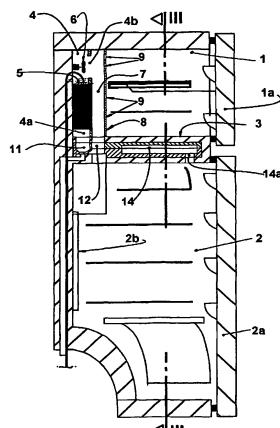
28 January 2002 (28.01.2002) BI

(71) Applicant (for all designated States except US): MULTI-BRÁS S.A. ELETRODOMÉSTICOS [BR/BR]; Avenida das Nações Unidas, 12995, 32º andar, 04578-000 São Paulo - SP (BR).

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SCHMID, Alexandre, Cury [BR/BR]; Rua Almirante Tamandaré, 157, 89204-140 Joinville SC (BR). RODRIGUES JUNIOR, Rogério [BR/BR]; Rua Bento Gonçalves, 225 apt. 702, 89261-110 Joinville -SC (BR). CARGNIN, Adriano [BR/BR]; Rua Victor Konder, 906, 89227-240 Joinville SC (BR).
- (74) Agents: ARNAUD, Antonio, M P et al.; Rua José Bonifácio, 93 9th floor, 01003-901 São Paulo SP (BR).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG,

[Continued on next page]

(54) Title: AIR DUCT SYSTEM FOR A REFRIGERATOR



(57) Abstract: An air duct system for a combined refrigerator of the forced air circulation type and comprising a freezing compartment (1) and a refrigerating compartment (2), which are superposed and separated by an intermediate wall (3), and further having an air cooling compartment (4) lodging an evaporator (5) and a fan (6) and presenting at least one circulated air inlet (4a) and at least one refrigerated air outlet (4b). The system comprises a body (10) mounted to the inside of the intermediate wall (3) and defining a rear chamber (11), which is opened to the circulated air inlet (4a); a transversal through-duct (12) communicating the refrigerated air outlet (4b) with the refrigerating compartment (2); at least one first and one second return duct (13, 14) presenting a rear end (13b, 14b) opened to the rear chamber (11), and a front end (13a, 14a) opened to the inside of the freezing compartment (1) and of the refrigerating compartment (2), respectively.

WO 03/064944 A1





SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.